

Certificate of Analysis

Analysed essential oil : Orange (sweet)

Analysis date : October, 28th 2013

Batch : 297QB309

Shelf life : November 2014

❖ General description

Essential oil	Orange (sweet)	Origin	Greece
Latin name	<i>Citrus sinensis</i> L.		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Yellow
Odour	Characteristic, closed to the fruit

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.848	0.842	<	d	<	0.850
Refractive index	1.4707	1.4700	<	RI	<	1.4760
Optical rotation	+94.80°	+94°	<	$[\alpha]^{20}_d$	<	+99°

❖ Volatile elucidation

GC : Perkin Elmer – Clarus 500

Column : Elite - 1, 30 m, Ø 0.25 mm, 0.25 µm df

Injection : split

Detector : FID

Carrier gas : H₂

⇒ See Chromatogram : non-polar column

Date : 2014-02-18

Software Version : 6.2.0.0.0:B27
Sample Name : Orange Douce
Instrument Name : CLARUS 500
Rack/Vial : 0/16
Sample Amount : 1.000000
Cycle : 16

Date : 28/10/2013 11:01:43
Data Acquisition Time : 25/10/2013 19:34:12
Channel : A
Operator : Davenne
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2013\131024.seq

Rapport d'analyse

colonne apolaire

Pic #	Component Name	TR [min]	Area [%]
1	pinene <alpha>	10.10	0.51
2	sabinene	11.53	0.40
3	pinene <beta>	11.68	0.07
4	myrcene + octanal <n>	12.29	1.80
5	carene <delta-3>	13.17	0.28
6	cymene <p>	13.52	0.04
7	limonene + phellandrene <beta>	13.99	95.54
8	linalool	16.79	0.22
9		17.56	0.07
10		18.14	0.19
11		18.37	0.11
12		18.92	0.04
13		20.65	0.04
14		21.10	0.03
15	decanal <n>	21.35	0.18
16		21.84	0.08
17		22.34	0.05
18	neral	22.62	0.13
19	geranial	23.94	0.05
20		25.86	0.03
21	valencene	33.91	0.13
			100.00

Chromatogram

Sample Name : Orange Douce Sample #: 297QB309 Page 1 of 1
File Name : C:\Data\Colonne Apolaire\Huiles Essentielles\Orange\Orange Douce\2013\orange douce 131024.raw
Date : 28/10/2013 11:01:46
Method : orange douce.mth Time of Injection: 25/10/2013 19:34:12
Start Time : 0.00 min End Time : 82.00 min Low Point : -47.31 mV High Point : 993.88 mV
Plot Offset: -47.31 mV Plot Scale: 1041.2 mV

